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=> s apoplasmic(w)invertase(w)inhibitor
L1 6 APOPLASMIC(W) INVERTASE(W) INHIBITOR

=> d l1 1-6

L1 ANSWER 1 OF 6 AGRICOLA
AN 1998:77788 AGRICOLA
DN IND21644797
TI Cloning of a tobacco **apoplasmic invertase inhibitor**. Proof of function of the recombinant protein and expression analysis during plant development.
AU Greiner, S.; Krausgrill, S.; Rausch, T.
CS Botanisches Institut, Heidelberg, Germany.
AV DNAL (450 P692)
SO Plant physiology, Feb 1998. Vol. 116, No. 2. p. 733-742
Publisher: Rockville, MD : American Society of Plant Physiologists, 1926-
CODEN: PLPHAY; ISSN: 0032-0889
NTE Includes references
CY Maryland; United States
DT Article; Conference
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L1 ANSWER 2 OF 6 AGRICOLA
AN 1998:61574 AGRICOLA
DN IND21239782
TI In transformed tobacco cells the **apoplasmic invertase inhibitor** operates as a regulatory switch of cell wall invertase.
AU Krausgrill, S.; Greiner, S.; Koster, U.; Vogel, R.; Rausch, T.
AV DNAL (QK710.P68)
SO The Plant journal : for cell and molecular biology, Jan 1998. Vol. 13, No. 2. p. 275-280
Publisher: Oxford : Blackwell Sciences Ltd.
ISSN: 0960-7412
NTE Includes references
CY England; United Kingdom
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L1 ANSWER 3 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1998:166021 BIOSIS
DN PREV199800166021

TI Cloning of a tobacco **apoplasmic invertase inhibitor**.
AU Greiner, Steffen; Krausgrill, Silke; Rausch, Thomas (1)
CS (1) Bot. Inst., Im Neuenheimer Feld 360, D-69120 Heidelberg Germany
SO Plant Physiology (Rockville), (Feb., 1998) Vol. 116, No. 2, pp. 733-742.
ISSN: 0032-0889.
DT Article
LA English

L1 ANSWER 4 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1998:121493 BIOSIS
DN PREV199800121493
TI In transformed tobacco cells the **apoplasmic invertase inhibitor** operates as a regulatory switch of cell wall invertase.
AU Krausgrill, Silke; Greiner, Steffen; Koester, Ulrike; Vogel, Rolf; Rausch, Thomas (1)
CS (1) Bot. Inst., Im Neuenheimer Feld 360, D-69120 Heidelberg Germany
SO Plant Journal, (Jan., 1998) Vol. 13, No. 2, pp. 275-280.
ISSN: 0960-7412.
DT Article
LA English

L1 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS
AN 1998:128809 CAPLUS
DN 128:228523
TI In transformed tobacco cells the **apoplasmic invertase inhibitor** operates as a regulatory switch of cell wall invertase
AU Krausgrill, Silke; Greiner, Steffen; Koster, Ulrike; Vogel, Rolf; Rausch, Thomas
CS Botanisches Institut, Heidelberg, D-69120, Germany
SO Plant Journal (1998), 13(2), 275-280
CODEN: PLJUED; ISSN: 0960-7412
PB Blackwell Science Ltd.
DT Journal
LA English

L1 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS
AN 1998:122112 CAPLUS
DN 128:253577
TI Cloning of a tobacco **apoplasmic invertase inhibitor**. Proof of function of the recombinant protein and expression analysis during plant development
AU Greiner, Steffen; Krausgrill, Silke; Rausch, Thomas
CS Botanisches Institut, Heidelberg, D-69120, Germany
SO Plant Physiology (1998), 116(2), 733-742
CODEN: PLPHAY; ISSN: 0032-0889
PB American Society of Plant Physiologists
DT Journal
LA English

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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L1 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS

AB Agrobacterium tumefaciens-transformed tobacco suspension-cultured cells (TSCC) exhibit no significant quant. changes of cell wall invertase protein (CWI) during a culture period of 40 days, whereas CWI activity decreases strongly between 10 and 30 days after cell transfer to fresh medium. Western blot anal. revealed that the **apoplasmic invertase inhibitor** (INH) is equally expressed throughout the entire culture period. When apoplasmic protein fractions from 4 and 28 days old cell cultures are chromatographed on Con A(ConA)-Sepharose, the non-glycosylated INH always coelutes with the ConA-bound fraction, suggesting that (i) INH and the glycosylated CWI form a complex in the apoplasmic space, and (ii) INH binding is not sufficient for CWI inhibition. The high specificity of INH binding to CWI was confirmed by native cathodic polyacrylamide gel electrophoresis. Expression anal. of CWI and INH indicates that, at least during certain stages of plant development (seedlings, roots of adult plants), CWI activity may be modulated by INH, the latter operating as a regulatory switch.